

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	63	(brows\$3 with (content\$2 or page or html or wml ) with link\$3 with (packag\$3 or packet))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:24
L2	3	L1 and (707/10).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:14
L3	10	L1 and (709/219).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:14
L4	1295	(cop\$3 with (content\$2 or page or html or wml ) with link\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:24
L5	509	(fetch\$3 with (content\$2 or page or html or wml ) with link\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:24
L6	20	4 and 5 and proxy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:24
L7	1	6 and @ad<"19990611"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:25
S1	463	(communication with access\$3 with server with proxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:09

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S2	424	(content with link\$3 with (simultaneous\$2 or parallel or concurrent))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:12
S3	22	(brows\$3 with content with link\$3 with (simultaneous\$2 or parallel or concurrent))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:12
S4	56	(brows\$3 with (content\$2 or page or html or wml ) with link\$3 with (simultaneous\$2 or parallel or concurrent))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:16
S5	0	S4 and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:14
S6	10	S4 and @ad<"19990611"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/21 07:25
S7	41	(brows\$3 with (content\$2 or page or html or wml ) with link\$3 with packag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:17
S8	63	(brows\$3 with (content\$2 or page or html or wml ) with link\$3 with (packag\$3 or packet))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:19
S9	6	S8 and @ad<"19990611"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:19

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S10	28	(wireless with application) and (brows\$3 with (content\$2 or page or html or wml ) with link\$3 ) and @ad<"19990611"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:20
S11	28	(wireless with application) and (brows\$3 with (content\$2 or page or html or wml ) with link\$3 ) and @ad<"19990611" and brows\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 20:48
S12	8	(wireless with application) and (fetch\$3 with (content\$2 or page or html or wml ) with link\$3 ) and @ad<"19990611" and brows\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:08
S13	71	(fetch\$3 with (content\$2 or page or html or wml ) with link\$3 ) and @ad<"19990611" and brows\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:41
S14	19	(communication with access\$3 ) and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:41
S15	394	(communication with access\$3 ) and (download\$3 with content with link\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:42
S16	3	S13 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:43
S17	108	(communication with access\$3 ) and (cellular with content with link\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:42

## EAST Search History

S18	0	S13 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:43
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Relevance scale ☐ ☐ ☐ ☐ ☐**1** Object prefetching using semantic links

Alexander P. Pons

January 2006 **ACM SIGMIS Database**, Volume 37 Issue 1**Publisher:** ACM Press

Full text available: pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To date the most common means of gaining access to the Internet continues to be via dial-up modem connections. These slow communication channels significantly affect the rendering of the majority of web pages. Higher speed communications channels can alleviate rendering latency but based on the web page's content, delays still are incurred. The technique of web object prefetching can expedite the presentation of web pages by utilizing the current web page's view time to acquire the web objects o ...

**Keywords:** semantic links, web-application, web-prefetching**2** Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson

January 1983 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(33.56 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#), [review](#)**From the Preface (See Front Matter for full Preface)**

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

**3** Mobility: Session level techniques for improving web browsing performance on wireless links

Pablo Rodriguez, Sarit Mukherjee, Sampath Ramgarajan

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04****Publisher:** ACM Press

Full text available: pdf(486.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[terms](#)

Recent observations through experiments that we have performed in current third generation wireless networks have revealed that the achieved throughput over wireless links varies widely depending on the application. In particular, the throughput achieved by file transfer application (FTP) and web browsing application (HTTP) are quite different. The throughput achieved over a HTTP session is much lower than that achieved over an FTP session. The reason for the lower HTTP throughput is that the HTTP ...

**Keywords:** optimizations, web, wireless

#### 4 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

**Publisher:** IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

#### 5 [The Satchel system architecture: mobile access to documents and services](#)

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(207.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face-to-face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

#### 6 [GPRSWeb: optimizing the web for GPRS links](#)



Rajiv Chakravorty, Andrew Clark, Ian Pratt

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**


**Publisher:** ACM Press

Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The General Packet Radio Service (GPRS) is being deployed by GSM network operators world-wide, and promises to offer users "always-on" data access at bandwidths comparable to that of conventional fixed-line telephone modems. Unfortunately, many users have found the reality to be rather different, experiencing very disappointing performance when, for example, browsing the web over GPRS. In this paper we investigate what causes the HTTP protocol and its underlying transport TCP to underperform in a ...

#### 7

[m-links: An infrastructure for very small internet devices](#)

-  Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh  
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**  
**Publisher:** ACM Press

Full text available:  pdf(680.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...


**Keywords:** middleware, proxy, web phones, wireless, wireless web

- 8 [Applications: Efficient and transparent dynamic content updates for mobile clients](#)   
Trevor Armstrong, Olivier Trescases, Cristiana Amza, Eyal de Lara  
June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**  
**Publisher:** ACM Press

Full text available:  pdf(378.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a novel infrastructure supporting automatic updates for dynamic content browsing on resource constrained mobile devices. Currently, the client is forced to continuously poll for updates from potentially different data sources, such as, e-commerce, on-line auctions, stock and weather sites, to stay up to date with potential changes in content. We employ a pair of proxies, located on the mobile client and on a fully-connected edge server, respectively, to minimize the battery consumpt ...


**Keywords:** batching, caching, energy measurement, mobile wireless communication, power management, pre-fetching, proxy


- 9 [Hypermedia application design: Journey to the past: proposal of a framework for past web browser](#)   
Adam Jatowt, Yukiko Kawai, Satoshi Nakamura, Yutaka Kidawara, Katsumi Tanaka  
August 2006 **Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06**  
**Publisher:** ACM Press

Full text available:  pdf(459.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While the Internet community recognized early on the need to store and preserve past content of the Web for future use, the tools developed so far for retrieving information from Web archives are still difficult to use and far less efficient than those developed for the "live Web." We expect that future information retrieval systems will utilize both the "live" and "past Web" and have thus developed a general framework for a past Web browser. A browser built using this framework would be a clien ...

**Keywords:** past web, past web browser, web archive

- 10 [Client-server computing in mobile environments](#)   
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2  
**Publisher:** ACM Press

Full text available:  [pdf\(233.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

## 11 Trusted paths for browsers



Zishuang (Eileen) Ye, Sean Smith, Denise Anthony

May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(265.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer security protocols usually terminate in a computer; however, the human-based services which they support usually terminate in a human. The gap between the human and the computer creates potential for security problems. We examine this gap, as it is manifested in secure Web servers. Felten et al. demonstrated the potential, in 1996, for malicious servers to impersonate honest servers. In this paper, we show how malicious servers can still do this---and can also forge the existence of an ...

**Keywords:** HCISEC, Trust path, Web browser security

## 12 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(248.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

**Keywords:** location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

## 13 Computing curricula 2001





September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press


Full text available:  [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



 [html\(2.78 KB\)](#)**14** Rover: a toolkit for mobile information access

 A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek  
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29  
Issue 5

**Publisher:** ACM PressFull text available:  [pdf\(2.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15** Experimental testbeds and data: Performance optimizations for wireless wide-area networks: comparative study and experimental evaluation

 Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt  
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**

**Publisher:** ACM PressFull text available:  [pdf\(262.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications running over WWAN cellular environments are significantly affected by the vagaries of the cellular wireless medium. Prior research has proposed and analyzed optimizations at individual layers of the protocol stack. In contrast, we introduce the fi ...

**Keywords:** 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy


**16** Designing Dexter-based hypermedia services for the World Wide Web

 Kaj Grønbaek, Niels Olof Bouvin, Lennert Sloth  
April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**

**Publisher:** ACM PressFull text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ActiveX, Dexter hypertext reference model, HTML, Java, JavaScript, OLE, World Wide Web, link objects, open hypermedia service

**17** Audio enriched links: web page previews for blind users

 Peter Parente  
September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78

**Publisher:** ACM PressFull text available:  [pdf\(229.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Audio Enriched Links provide previews of linked web pages to users with visual impairments. Before a user follows a hyperlink, the Audio Enriched Links software presents a spoken summary of the next page including its title, its relation to the current

page, statistics about its content, and some highlights from its content. We believe that such a summary may be a useful surrogate for a full web page, and help users with visual impairments decide whether or not to spend time visiting a linked ...

**Keywords:** accessibility, speech preview, visual impairment, web page preview

## 18 An information system based on distributed objects



Michael Caplinger

December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12

**Publisher:** ACM Press

Full text available: pdf(1.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Telesophy system is intended to provide transparent access to all of a community's online information. The scale of the system requires that it be distributed across many machines via a network; the multiple types and formats of the information require that it be a multimedia system. We describe a prototype that uses objects to represent, query, display, and edit information. A two-level storage system is used to store the objects on multiple servers; queries are processed ...

## 19 Security, privacy & ethics: Invasive browser sniffing and countermeasures



Markus Jakobsson, Sid Stamm

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

**Publisher:** ACM Press

Full text available: pdf(614.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the detrimental effects of browser cache/history sniffing in the context of phishing attacks, and detail an approach that neutralizes the threat by means of URL personalization; we report on an implementation performing such personalization *on the fly*, and analyze the costs of and security properties of our proposed solution.

**Keywords:** browser cache, cascading style sheets, personalization, phishing, sniffing

## 20 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use



Theodor Holm Nelson

December 1999 **ACM Computing Surveys (CSUR)**

**Publisher:** ACM Press

Full text available: pdf(787.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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### 1 [Smalltalk-80: the language and its implementation](#)

 Adele Goldberg, David Robson  
January 1983 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

 Full text available: pdf(33.56 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#), [review](#)

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Thomas Kunz, Michiel F. H. Seuren

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#### 4 Rover: a toolkit for mobile information access



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December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29  
Issue 5

**Publisher:** ACM Press

Full text available: pdf(2.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 5 The Satchel system architecture: mobile access to documents and services



Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming  
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(207.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Zishuang (Eileen) Ye, Sean Smith, Denise Anthony  
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**Publisher:** ACM Press

Full text available: pdf(265.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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9 Applications: Efficient and transparent dynamic content updates for mobile clients



Trevor Armstrong, Olivier Trescases, Cristiana Amza, Eyal de Lara

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**Keywords:** batching, caching, energy measurement, mobile wireless communication, power management, pre-fetching, proxy

10 Hypermedia pplication design: Journey to the past: proposal of a framework for past web browser



Adam Jatowt, Yukiko Kawai, Satoshi Nakamura, Yutaka Kidawara, Katsumi Tanaka

August 2006 **Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06**

**Publisher:** ACM Press

Full text available: pdf(459.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While the Internet community recognized early on the need to store and preserve past content of the Web for future use, the tools developed so far for retrieving information from Web archives are still difficult to use and far less efficient than those developed for the "live Web." We expect that future information retrieval systems will utilize both the

"live" and "past Web" and have thus developed a general framework for a past Web browser. A browser built using this framework would be a clien ...

**Keywords:** past web, past web browser, web archive

# 11 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available: pdf(613.63 KB)

html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 12 System support for pervasive applications



Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall  
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

# 13 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(338.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

# 14 Structured hypertext with domain semantics



Weigang Wang, Roy Rada

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

**Publisher:** ACM Press

Full text available: pdf(593.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One important facet of current hypertext research involves using knowledge-based

techniques to develop and maintain document structures. A semantic net is one such technique. However, most semantic-net-based hypertext systems leave the linking consistency of the net to individual users. Users without guidance may accidentally introduce structural and relational inconsistencies in the semantic nets. The relational inconsistency hinders the creation of domain information models. The structura ...

**Keywords:** graph theory, hypertext models, hypertext structures

15 Experimental testbeds and data: Performance optimizations for wireless wide-area networks: comparative study and experimental evaluation



Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt  
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**

**Publisher:** ACM Press

Full text available: pdf(262.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications running over WWAN cellular environments are significantly affected by the vagaries of the cellular wireless medium. Prior research has proposed and analyzed optimizations at individual layers of the protocol stack. In contrast, we introduce the fi ...

**Keywords:** 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy

16 Designing Dexter-based hypermedia services for the World Wide Web



Kaj Grønbaek, Niels Olof Bouvin, Lennert Sloth  
April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**

**Publisher:** ACM Press

Full text available: pdf(1.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ActiveX, Dexter hypertext reference model, HTML, Java, JavaScript, OLE, World Wide Web, link objects, open hypermedia service

17 Audio enriched links: web page previews for blind users



Peter Parente  
September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04, Issue 77-78**

**Publisher:** ACM Press

Full text available: pdf(229.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Audio Enriched Links provide previews of linked web pages to users with visual impairments. Before a user follows a hyperlink, the Audio Enriched Links software presents a spoken summary of the next page including its title, its relation to the current page, statistics about its content, and some highlights from its content. We believe that such a summary may be a useful surrogate for a full web page, and help users with visual impairments decide whether or not to spend time visiting a linked ...


**Keywords:** accessibility, speech preview, visual impairment, web page preview

18 Dynarnic parallel access to replicated content in the internet

Pablo Rodriguez, Ernst W. Biersack

August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4

**Publisher:** IEEE Press

Full text available:  pdf(350.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Popular content is frequently replicated in multiple servers or caches in the Internet to offload origin servers and improve end-user experience. However, choosing the best server is a nontrivial task and a bad choice may provide poor end user experience. In contrast to retrieving a file from a single server, we propose a parallel-access scheme where end users access multiple servers at the same time, fetching different portions of that file from different servers and reassembling them locally. ...

**Keywords:** HTTP, content distribution, internet, mirroring, parallel access, peer-to-peer, replication, web

19 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use

Theodor Holm Nelson

December 1999 **ACM Computing Surveys (CSUR)**

**Publisher:** ACM Press

Full text available:  pdf(787.72 KB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

20 Power browser: efficient Web browsing for PDAs

Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke, Terry Winograd

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '00**

**Publisher:** ACM Press

Full text available:  pdf(992.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

We have designed and implemented new Web browsing facilities to support effective navigation on Personal Digital Assistants (PDAs) with limited capabilities: low bandwidth, small display, and slow CPU. The implementation supports wireless browsing from 3Com's Palm Pilot. An HTTP proxy fetches web pages on the client's behalf and dynamically generates summary views to be transmitted to the client. These summaries represent both the link structure and contents of a set of web pages, using infor ...

**Keywords:** HTTP, PDA (personal digital assistant), PalmPilot, Web, browser, proxy, wireless

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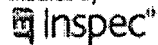
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